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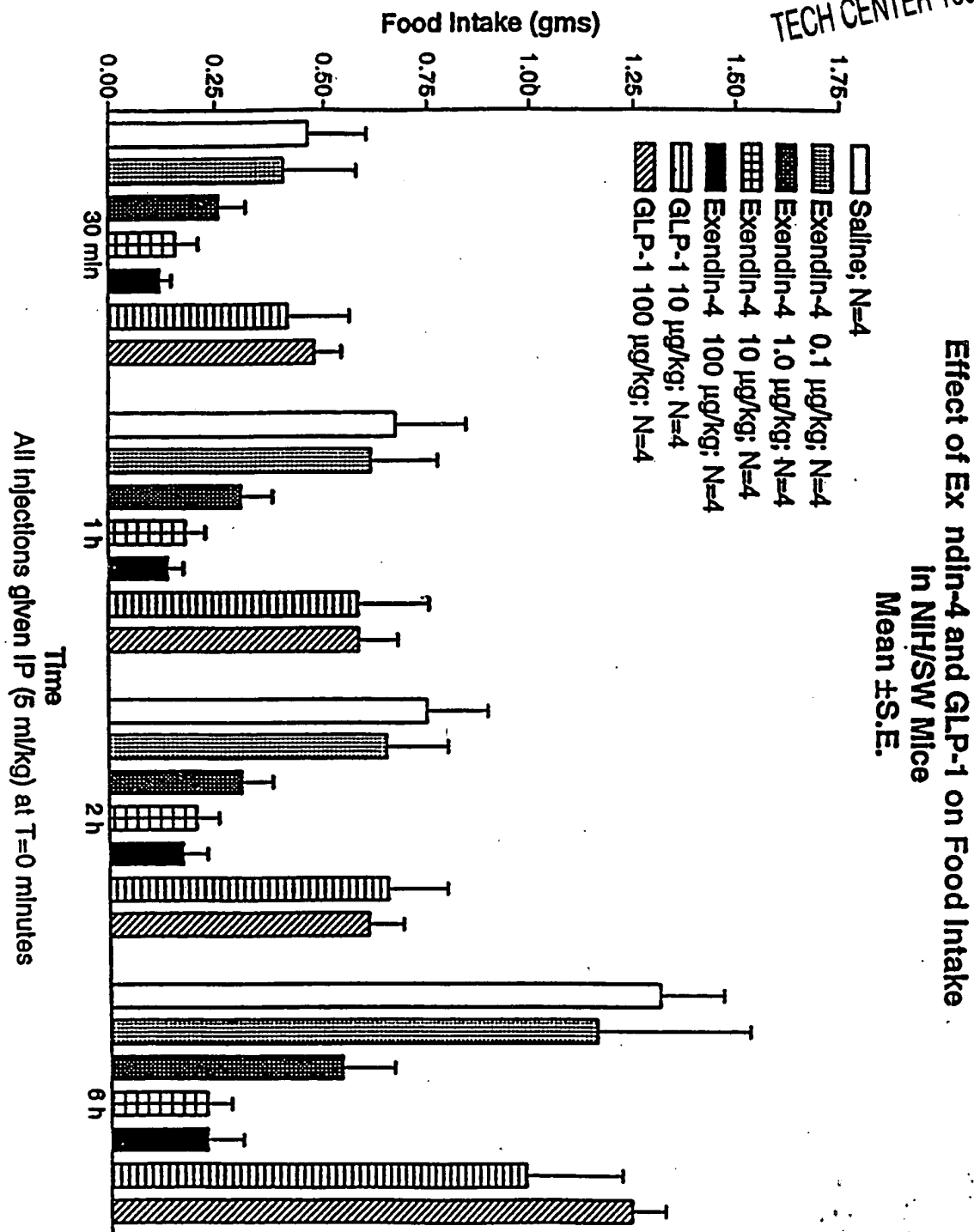


FIGURE 1



**Effect of Exendin-4 on Food Intake in
Female ob/ob Mice
Mean \pm S.E.**

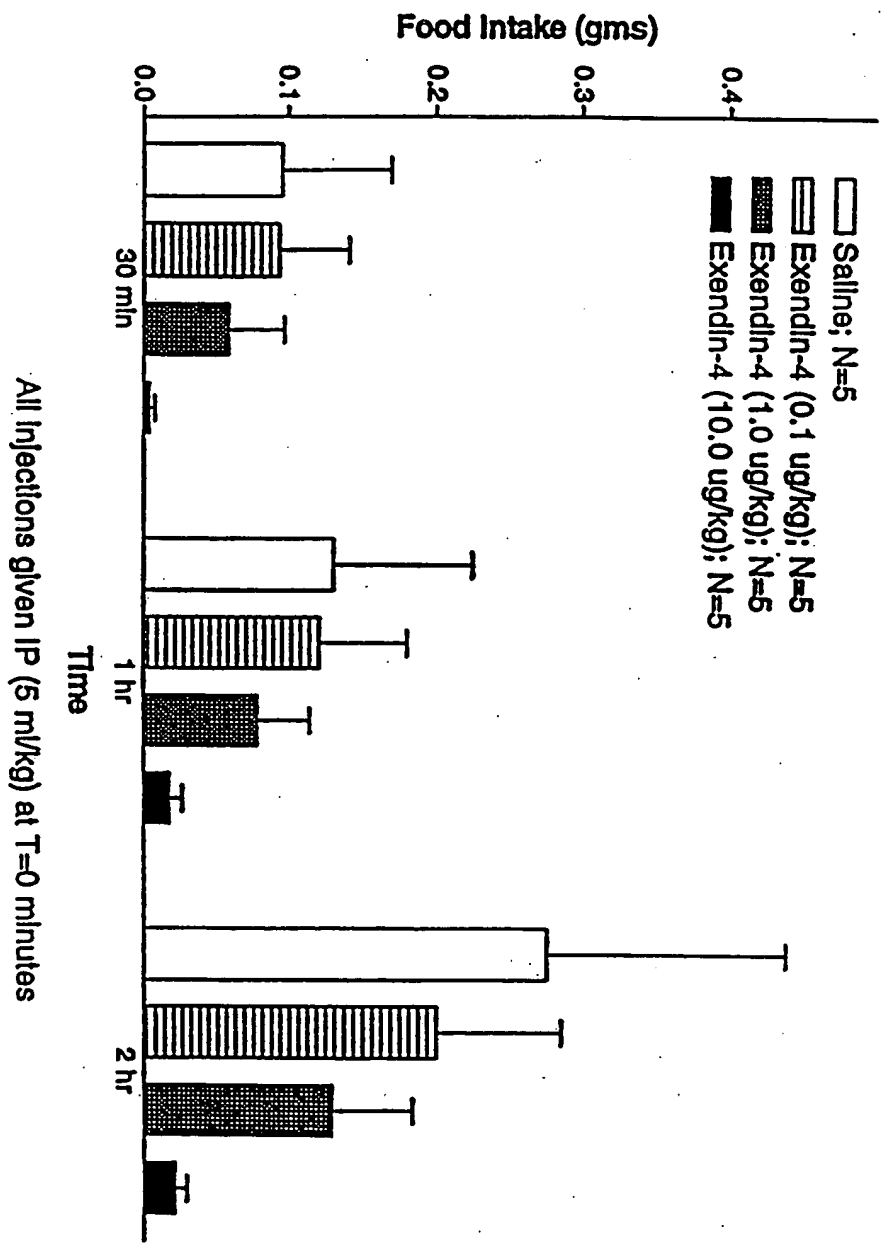


FIGURE 2

All injections given IP (5 ml/kg) at T=0 minutes

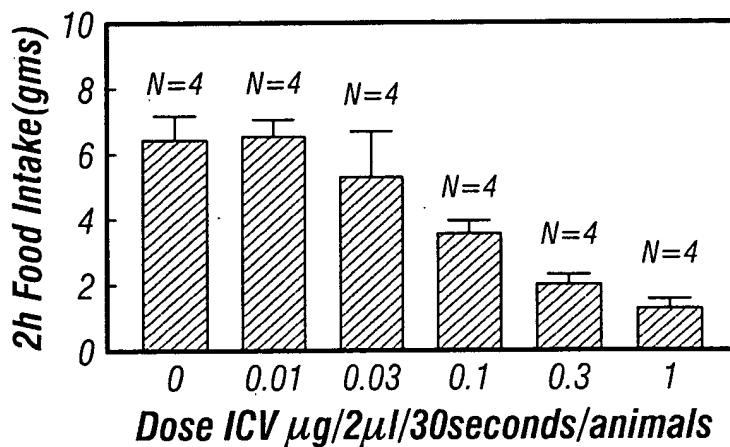


FIG. 3A

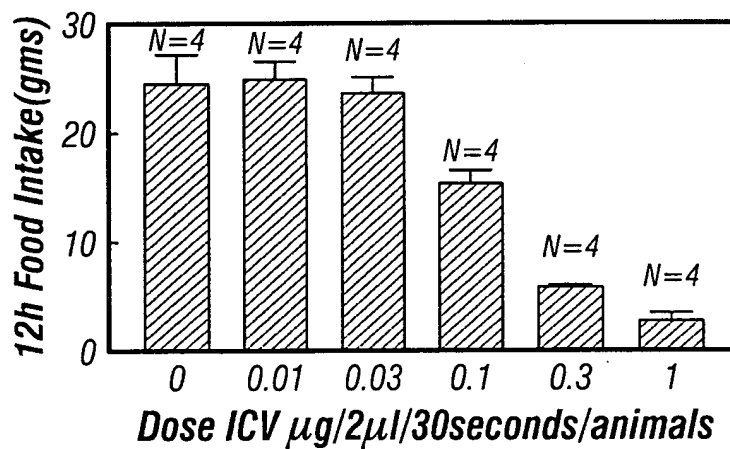


FIG. 3B

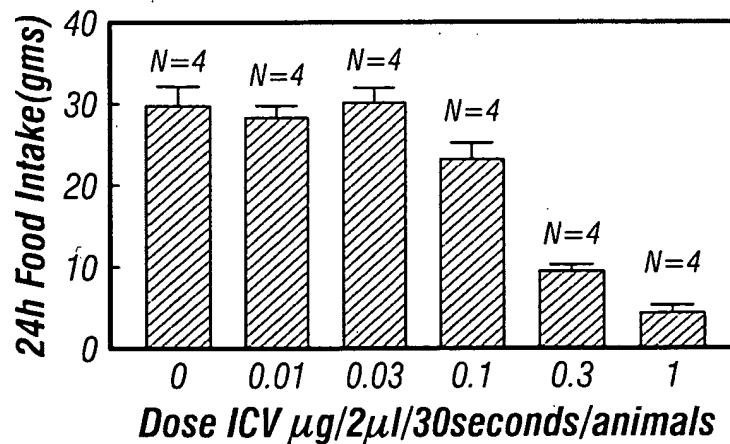


FIG. 3C

Effect of Compound 1 on Food Intake
in NIH/SW Mice
Mean \pm S.E.

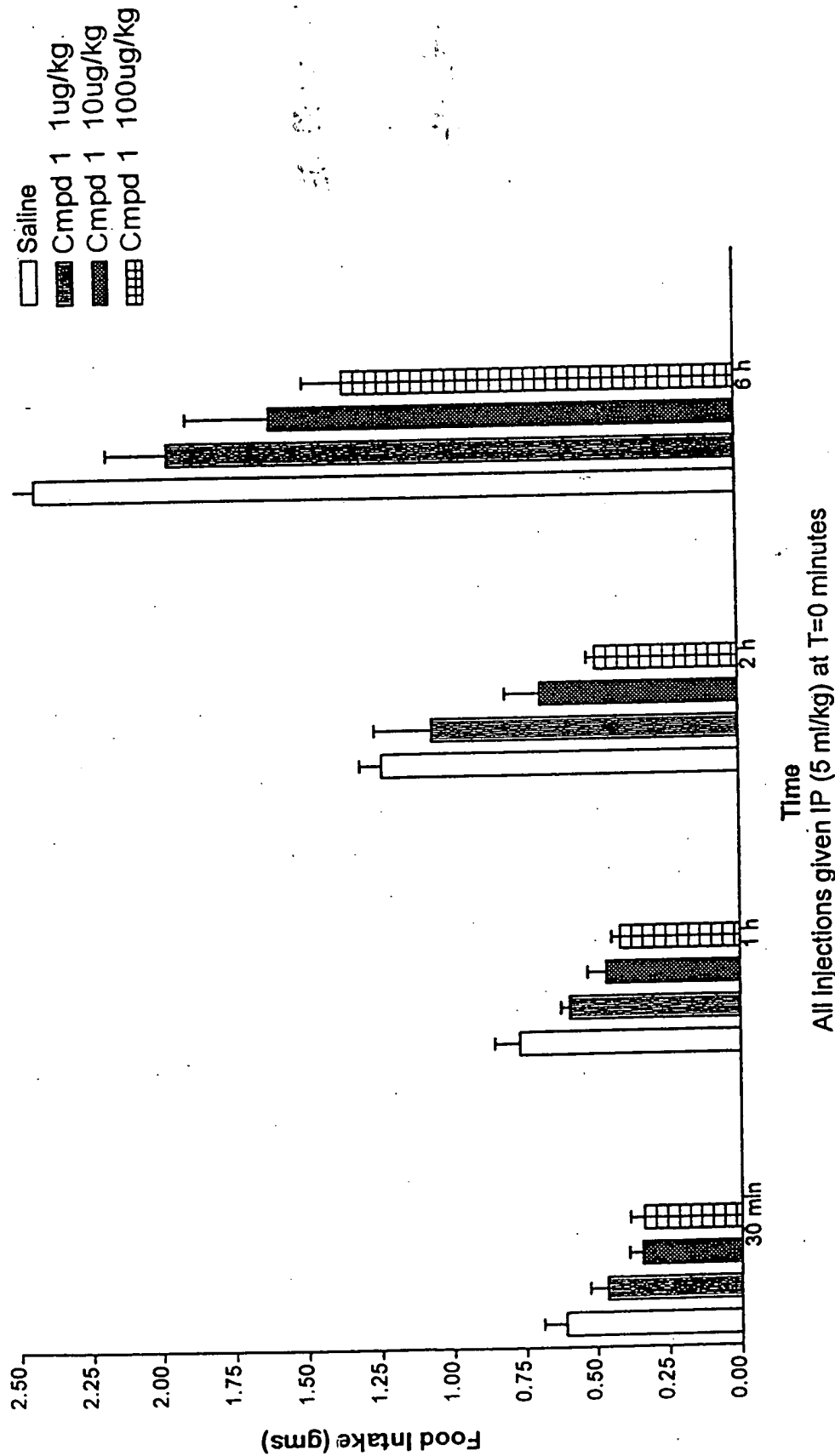


FIGURE 4

Effect of Compound 2 on Food Intake
in NIH/SW Mice
Mean \pm S.E.

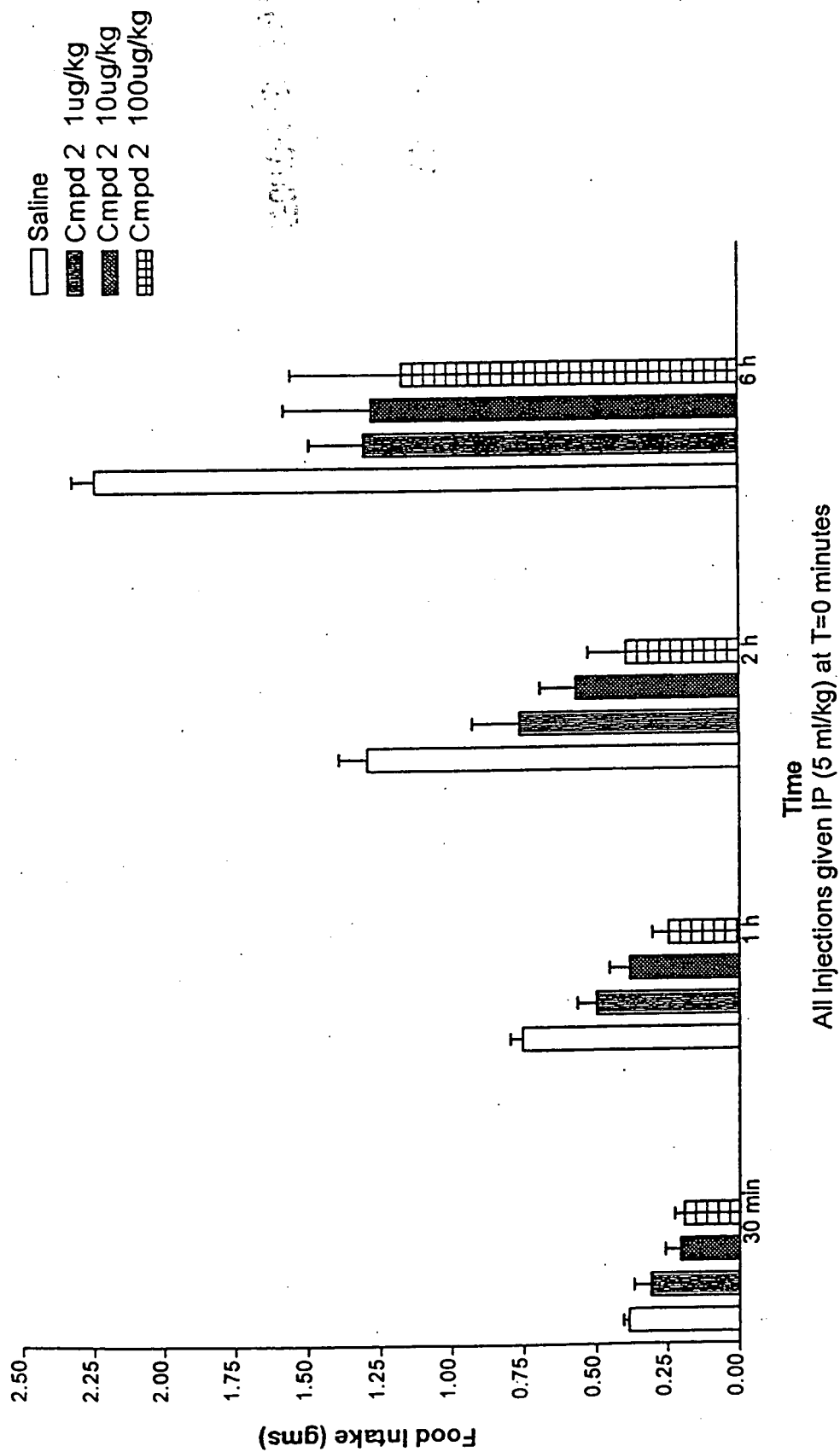


FIGURE 5

Effect of Compound 3 on Food Intake
in NIH/SW Mice
Mean \pm S.E.

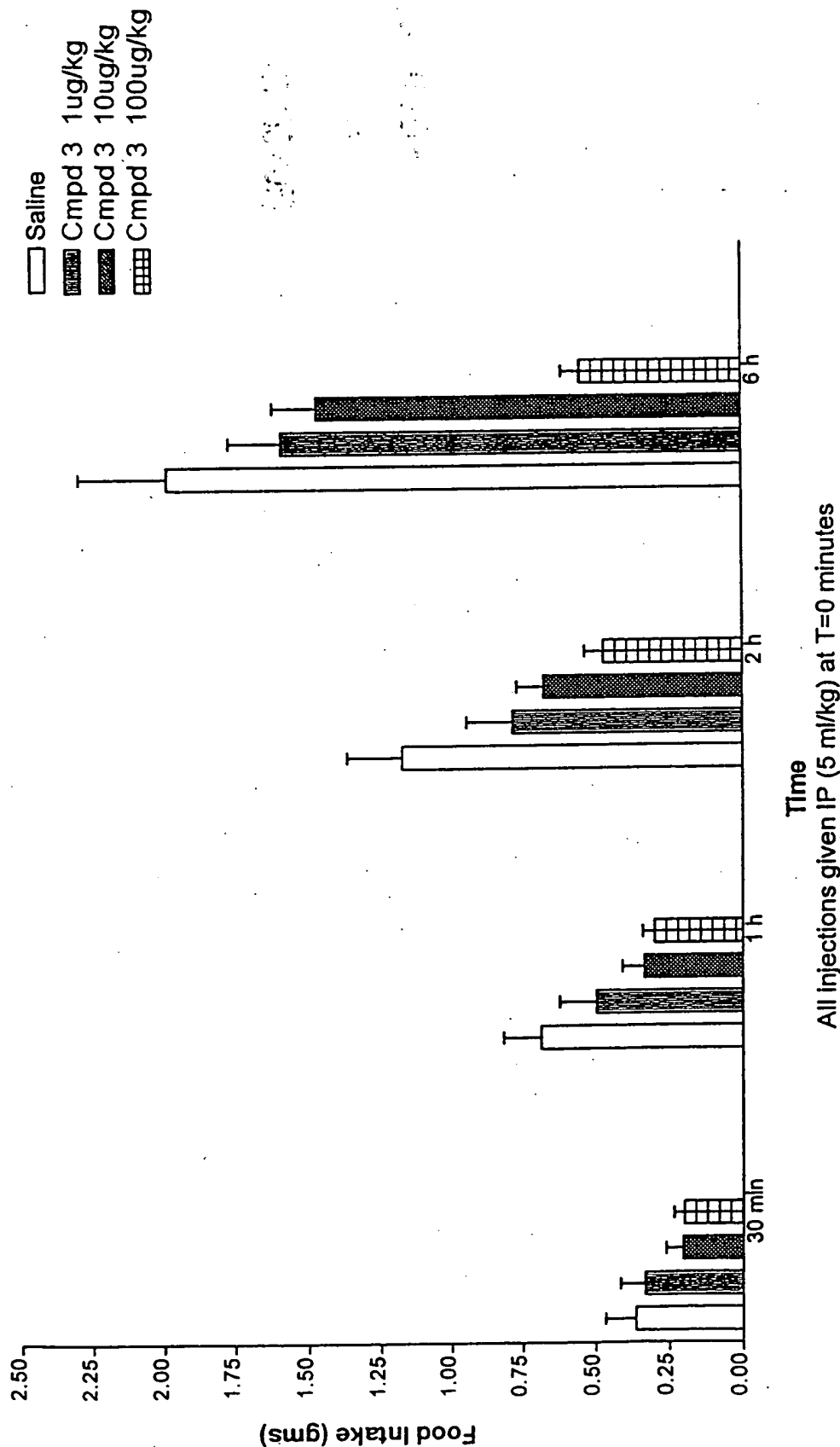


FIGURE 6

**Effect of Compound 4 on Food Intake
in NIH/SW Mice
Mean \pm S.E.**

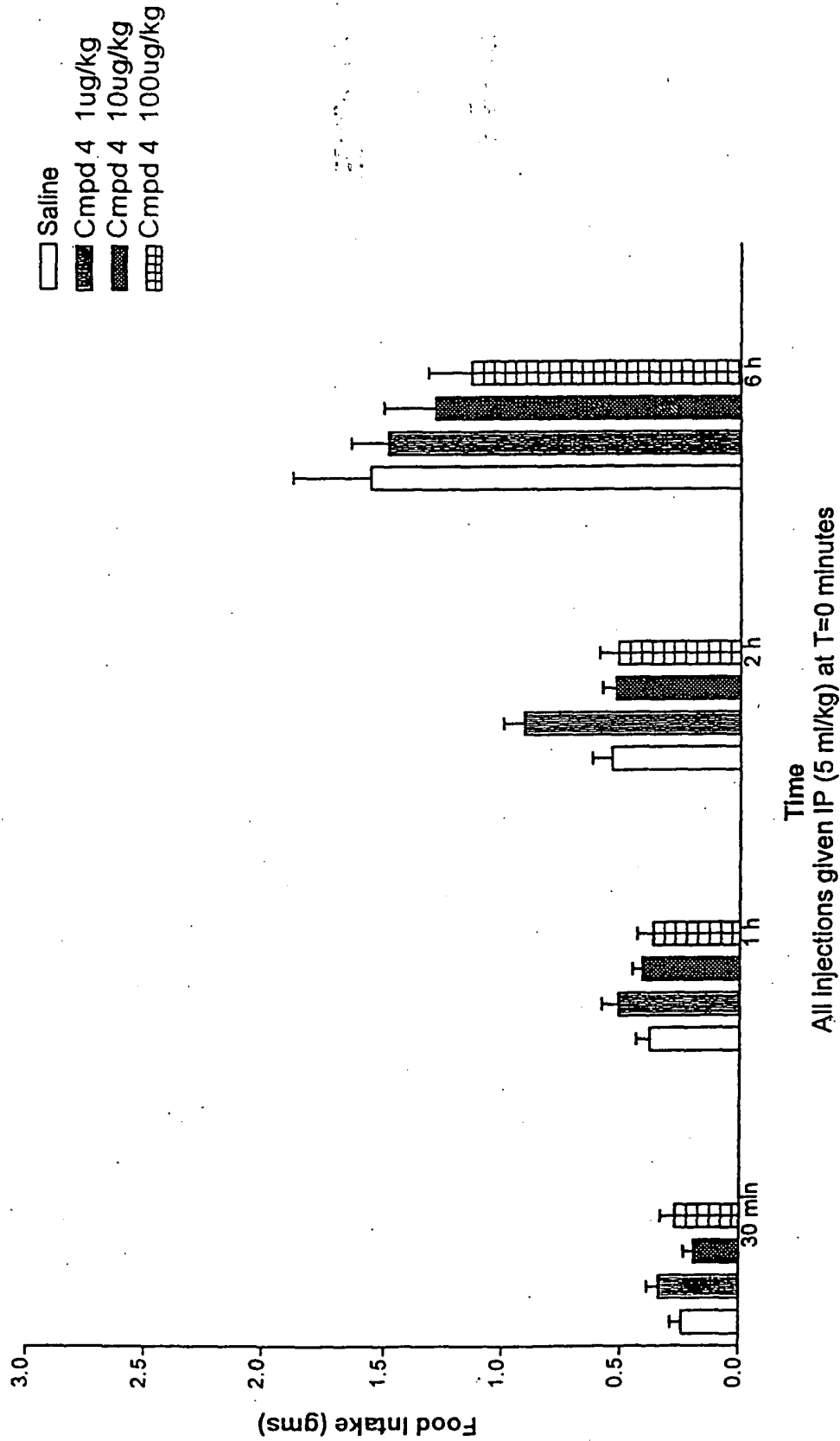


FIGURE 7

Effect of Compound 5 on Food Intake
in NIH/SW Mice
Mean \pm S.E.

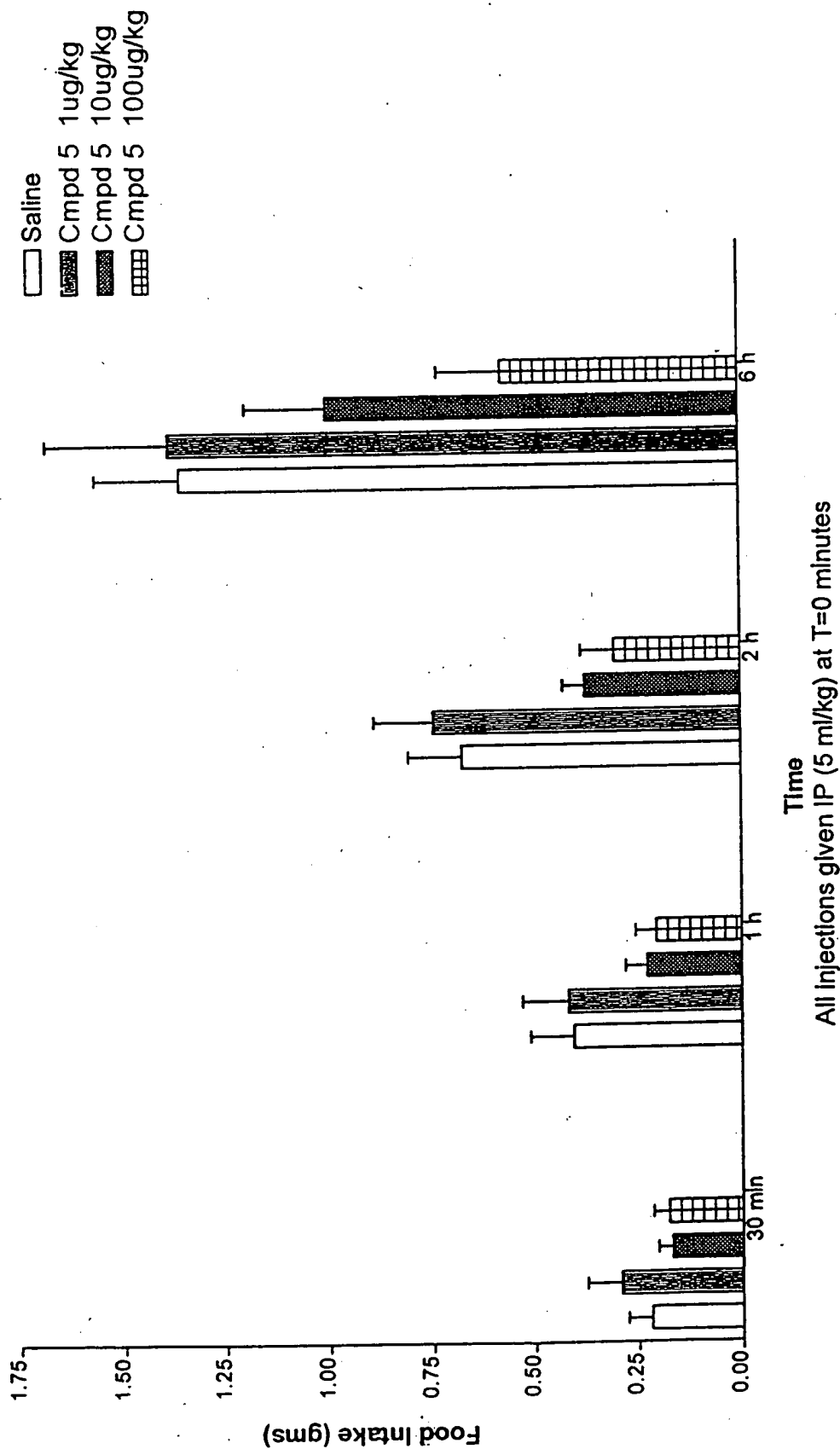
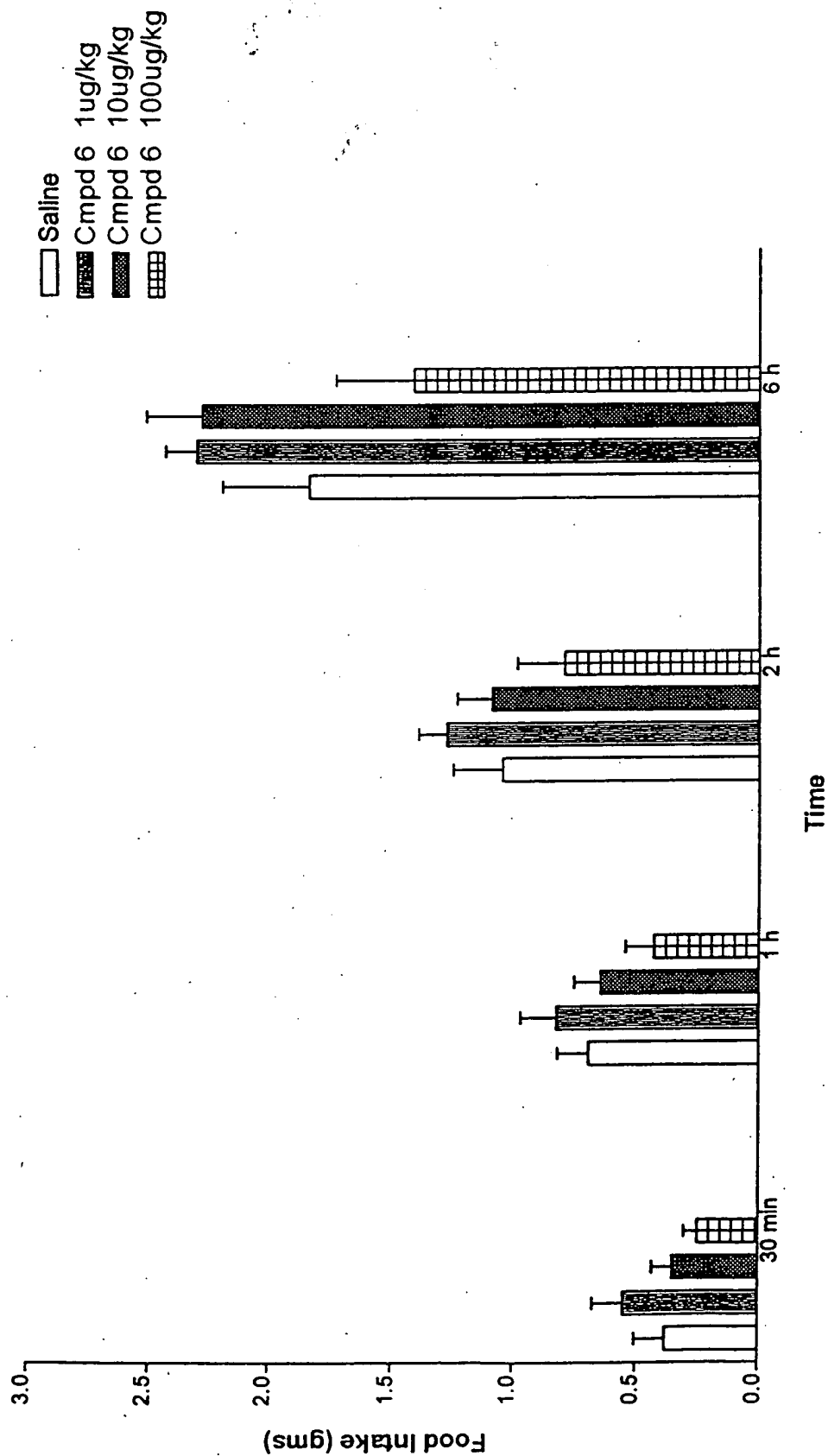


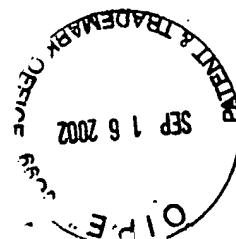
FIGURE 8

Effect of Compound 6 on Food Intake
in NIH/SW Mice
Mean \pm S.E.



All Injections given IP (5 ml/kg) at T=0 minutes

FIGURE 9



| SEQ. ID. NO. | Xaa ₁ | Xaa ₂ | Xaa ₃ | Xaa ₄ | Xaa ₅ | Xaa ₆ | Xaa ₇ | Xaa ₈ | Xaa ₉ | Xaa ₁₀ | Xaa ₁₁ | Xaa ₁₂ | Xaa ₁₃ | Xaa ₁₄ | Xaa ₁₅ | Xaa ₁₆ | Xaa ₁₇ | Xaa ₁₈ | Z |
|--------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|
| 9 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | Ile | Glu | Phe | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 10 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 11 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Phe | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 12 | Tyr | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 13 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 14 | His | Gly | Asp | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 15 | His | Gly | Glu | naph | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 16 | His | Gly | Glu | Phe | Ser | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 17 | His | Gly | Glu | Phe | Ser | Thr | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 18 | His | Gly | Glu | Phe | Thr | Thr | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 19 | His | Gly | Glu | Phe | Thr | Ser | Glu | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 20 | His | Gly | Glu | Phe | Thr | Ser | Asp | pGly | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 21 | His | Gly | Glu | Phe | Thr | Ser | Asp | pGly | Leu | Phe | Ile | Glu | Phe | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 22 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | pGly | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 23 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | pGly | Phe | Ile | Glu | Phe | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 24 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | naph | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 25 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Val | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 26 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | Val | Glu | Phe | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 27 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | tBuG | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 28 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | tBuG | Glu | Phe | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 29 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Asp | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 30 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Phe | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 31 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | Pro | Pro | Ser | NH ₂ |
| 32 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | tPro | tPro | Ser | NH ₂ |
| 33 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | tPro | tPro | Ser | NH ₂ |
| 34 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | hPro | hPro | Ser | NH ₂ |
| 35 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | Pro | Pro | hPro | hPro | Ser | NH ₂ |
| 36 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | Ile | Glu | Phe | Pro | Pro | tPro | tPro | Ser | NH ₂ |
| 37 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | Ile | Glu | Phe | hPro | hPro | hPro | hPro | Ser | NH ₂ |
| 38 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Met | Phe | Ile | Glu | Trp | MeAla | MeAla | MeAla | MeAla | Ser | NH ₂ |
| 39 | His | Gly | Glu | Phe | Thr | Ser | Asp | Leu | Leu | Phe | Ile | Glu | Phe | MeAla | MeAla | MeAla | MeAla | Ser | NH ₂ |

FIG. 10

